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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/599,309	03/05/2007	Kosuke Naito	G0126.0249	6752
32172 7590 06/14/2010 DICKSTEIN SHAPIRO LLP 1633 Broadway			EXAMINER	
			PITT, BRYAN W	
NEW YORK, NY 10019			ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/599,309	NAITO ET AL.		
Office Action Summary	Examiner	Art Unit		
	Bryan Pitt	2617		
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING I - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be tid d will apply and will expire SIX (6) MONTHS fron te, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>27 I</u> This action is FINAL . 2b) ☐ This action is FINAL . Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr			
Disposition of Claims				
4) Claim(s) 1 and 2 is/are pending in the application 4a) Of the above claim(s) is/are withdrays s/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1 and 2 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.			
Application Papers				
9) The specification is objected to by the Examination 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ccepted or b) objected to by the edrawing(s) be held in abeyance. Section is required if the drawing(s) is ob-	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ☐ Interview Summar Paper No(s)/Mail D	oate		
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application 6) Other:				

Application/Control Number: 10/599,309 Page 2

Art Unit: 2617

DETAILED ACTION

Response to Amendment

Applicant's amendment was received 27 May 2010 and has been entered. Claim
 was amended and claims 3-9 were canceled. Claims 1-2 are pending.

Response to Arguments

- 2. Applicant's arguments, see After-Final Amendment, filed 27 May 2010, with respect to the rejection(s) of claim(s) 1 under 35 USC § 103 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of a different interpretation of the cited prior art.
- 3. The Examiner agrees with the Applicant that Salmela teaches <u>increasing</u> the charge discount rate of the user of the base station as the total time for sending the specific use identification signal becomes shorter or as the usage time or the amount of using packet of a general user other than the user of the base station becomes larger. However, the Examiner disagrees with the assertion that Salmela fails to teach a charge discount rate as Salmela teaches providing call charges below the normal tariff.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Page 3

Art Unit: 2617

5. Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 6,516,193 to Salmela et al. in view of US 6,097,937 to Sawyer.

Regarding claim 1, Salmela teaches a mobile communication system comprising a base station and a terminal,

the base station being operable to transmit a downlink signal that includes a base station ID number indicating the identity of the base station and a specific use identification signal that indicates the base station is for specific use (i.e. Salmela teaches a base station which broadcasts its identifier; Col. 1 line 60 to Col. 2 line 8. The base station also broadcasts a signal informing a user that a special service, such as reduced tariff, is available Col. 1 lines 16-28), and

the terminal comprising a memory that stores a list of base station ID numbers of an accessible base station or an inaccessible base station, the list including every specific use identification signal (i.e. Salmela teaches that the mobile station stores a list of authorized base stations, including base stations for which a special service is available; Col. 3 lines 43-52), and

the terminal being operable to search whether or not the base station ID number in the received downlink signal is in the list of base station ID numbers and whether the specific use identification signal detected from the downlink signal is ON and performing communication with the base station only when access is permissible (i.e. Salmela teaches that the mobile station compares the broadcast base station identifier to the stored list of authorized base stations; Col. 10 lines 1-22. The mobile station is

restricted to accessing only permitted cells; Col. 10 lines 23-32. The mobile station also detects whether the special service message is being broadcast; Col. 1 lines 16-29),

the mobile communication system further comprising a mobile communication network connected to the base station (i.e. Salmela teaches the base stations operating in a mobile communications network; Col. 1 lines 30-47),

wherein the mobile communication network comprises a discount rate calculation unit that calculates a charge discount of a user of the base station (i.e. Salmela teaches discounting the tariff when the user makes call from certain cells, therefore having a discount rate calculation unit; Col. 1 lines 16-29),

Salmela does not specifically teach further comprising, wherein the base station periodically sends the information to a database for storing the information indicating whether or not the specific use identification signal is sent, the mobile communication network comprises a database for storing the information, wherein the discount rate calculation unit calculates a charge discount rate of a user of the base station on the basis of whether the user has used information on the base station stored in the database, and wherein the discount rate calculation unit increases the charge discount rate of the user of the base station as the total time for sending the specific use identification signal becomes short or as the usage time or the amount of using packet of a general user other than the user of the base station becomes larger; however, at the time the invention was made the above limitation was well known in the art of communications.

Application/Control Number: 10/599,309

Page 5

Art Unit: 2617

Sawyer teaches a mobile communications system wherein a private microcell has an operating agreement with a public macrocell system thereby increasing the customer base of the public operator while providing wireless coverage to the private operator; see abstract. The private base stations presumably broadcast their cell IDs as is well known in the art. The mobile communications network charges the private users at a preferential rate when they operate in the private cell and at a public rate when they operate in a public cell; Fig. 4. If the microcell is inoperable or degraded, the private users are charged at the preferential rate; Fig. 4. The private system periodically sends reports on its operating status to the MSC of the public system; Col. 4 line 52 to Col. 5 line 8. If the private base station fails (thus it does not broadcast), it can neither serve the private users nor report to the public system (Col. 2 lines 36-46, Col. 4 line 63 to Col. 5 line 8). The MSC places information regarding the private base station operating status in a charging record (i.e. database) send to a billing center and the billing center adjusts the tariff applied to users of the private microcell according to the microcell status; Col. 4 lines 3-24, Col. 4 line 52 to Col. 5 line 8. If the private cell is has failed (thus is not broadcasting), the operator will charge the private users at the preferential rate; however, if the private cell was congested (i.e. the usage time or amount of packet use of another user becomes larger) the private user is charges at the preferential rate plus a surcharge, therefore the discount rate is increased; Fig. 4, Col. 5 lines 57-65. This allows the macrocell operator to give the private microcell subscribers preferential status in the public macrocell when the microcell is inoperable and charge an extra surcharge when the private microcell is congested; Col. 5 line 57 to Col. 6 line 9.

Application/Control Number: 10/599,309 Page 6

Art Unit: 2617

Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to modify the mobile communications system of Salmela to include public and private cells in order to increase the customer base and to adjust tariffs according to the status of private base stations as taught by Sawyer in order to give preferential status to private users while penalizing for excessive use of system resources.

Regarding claim 2, the combination of Salmela and Sawyer teaches a mobile communication system according to claim 1, wherein the base station is operable to include the specific use identification signal to be included in a transmitted downlink common channel (i.e. Salmela teaches broadcasting the special service message, therefore transmitting on a downlink common channel; Col. 1 lines 16-29).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 2002/0151300 teaches a wireless communication system comprising a plurality of public access point, a plurality of personal access points, and a control station wherein the control station measures the utilization level of each user's personal access points and discounts the user's utilization fee (rate) according to the frequency by which the user's personal access point was utilized by users other than the owner.

Application/Control Number: 10/599,309

Art Unit: 2617

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bryan Pitt whose telephone number is (571) 270-7466. The examiner can normally be reached on Monday - Friday 9:00 AM - 5:00 PM EST.

Page 7

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/ Supervisory Patent Examiner, Art Unit 2617

/B. P./ Examiner, Art Unit 2617